

ABSTRACT

A system for receiving an OFDM signal. An AD converter samples a received signal at a first sampling rate. A low pass filter removes noise from a signal outputted from the AD converter. A rate converter extracts data from a signal outputted from the low pass filter at a second sampling rate. An OFDM signal decoding circuit converts and decodes a signal outputted from the rate converter from a time domain to a frequency domain. An error correction circuit corrects errors of a signal outputted from the OFDM signal decoding circuit. The low pass filter varies its frequency characteristic in response to said first sampling rate.